A REVIEW OF SOME GENERIC NAMES IN THE ORDER LEPIDOPTERA

WM. BARNES, M. D., AND A. W. LINDSEY, MS., Ph. D., Decatur, Illinois.

In the preparation of our Catalogue of North American Lepidoptera we have determined to investigate the history of all generic names now in use, and others as far as they concern us, in order to be certain that the use of the terms is correct according to the principles laid down in the "International Rules of Zoological Nomenclature." We use Smallwood's edition of these rules, and are indebted to Mr. F. H. Benjamin for information on some later opinions, notably that dealing with Lamarck's citations of 1801 which have been accepted by some writers as valid fixations. We are informed by Mr. Benjamin that these are repudiated in an opinion of the International Committee on Nomenclature. This action is strictly in harmony with the body of the rules as applied to Lamarck's work.

The one other set of rules which we have considered is the "Entomological Code" of Banks and Caudell. We favor these rules, for they are stated with enviable clearness and conciseness, but feel that the International Rules should be followed by all zoologists, from the very nature of their origin. The only point of extreme difference in the two is that the Code does not permit a species to be the type of two different genera, unless, of course, it be the orthotype of the second, established through oversight after becoming the type of the first. While this simplifies the fixation of a type in some cases, it frequently makes a decision more difficult.

In the relatively small part of the order now examined, we find so many radical changes that we feel it wise to present our conclusions thus far to the entomological fraternity, so that the sharp criticism which we frankly expect may have time to bear fruit in a more or less definite general opinion. Our own attitude to this subject is that, while intensely interesting research, the entire problem is so purely accessory to the true aim of science that it should be reduced to a firm basis as speedily as possible. This basis is established for us by the International Rules, and we are heartily in favor of working out the standing of our genera according to these rules, accepting whatever radical changes they produce, and turning a deaf ear to the cries of those who would continue to make personal opinion their ultimate guide.

ASCIIDÆ.

ASCIA Scopoli Logotype Papilio monuste Linn.

- 1777. Scopoli, Int. Hist. Nat. 434; Crataegi, napi, sinapis, monuste, polybe.
 1872. Scudder, 4th Rept. Peab. Acad. 61, cites monuste as type.
 1875. Id., Hist. Sk. 121-2, confirms this citation.
 1918. Hampson, Nov. Zool. XXV, 385, cites crataegi as type.

Owing to Scudder's action in 1872 this genus must be regarded as valid, and will replace Pieris in our fauna. As a result of this the family name becomes Asciida. Hampson uses cratagi as type, following the first species principle, which is not permissible under the Inter-national Rules. He arrives, however, at the same conclusion regarding the family name, which he spells Asciada.

SATYRIDÆ.

MEGISTO Hbn. Logotype Papilio eurytus Fab.

- 1818. Huebner, Verz. bek. Schmett. 54; Cymelia (euritus), argante, euridice (canthus, camerta), acmenis.
 1868. Butler, Cat. Satyr. B. M. 14, Cites eurytus (euritus, cymelia) as type.
 1872. Scudder, 4th Rept. Peab. Acad. 27, follows Butler.
 1875. Id., Hist. Sk. 213, says that this was incorrect because "eurytus is

- `1875. strictly congeneric with penelope, the type of Cissia," and cites acmenis as type.

Butler's citation of *eurytus* was valid and Scudder's later citation of acmenis ultra vires. As a result we must use Megisto to replace Cissia, type penelope.

ARGUS Scopoli. Logotype Papilio eurydice Joh.

- 1777. Scopoli, Int. Hist. Nat. 432; a heterogeneous group including eurydice.
- Scudder, 4th Rept. Peab. Acad. 27, cites eurydice as type. 1872.
- Id., Hist. Sk. 118, discards this genus because of its original hetero-geneous nature. This may have been a desirable course, but it seems entirely indefensible, since the genus had already been given a valid type and definite generic usage in the modern sense. Id., Butt. New. Eng. I, 187, under *Satyrodes*, cites *Argus* Scudder (not 1875.
- 1888. Scopoli).

We see no way to avoid using this genus in place of Satyrodes.

HELICONIUS Linn. Logotype Papilio psidii Linn.

- 1758. Linneaus, Syst. Nat. Ed. X, 458. Many species, including Danaidæ, Parnassinæ and Heliconiinæ (of authors).
 1810. Latreille, Consid. Gen. 440, cites polymnia and horta as types. Neither of these species belongs to Heliconius Auct.

- 1872. Crotch, Cist. Ent. I, 60, cites *psidii* as type, giving Lamarck as authority. While Lamarck's work does not actually fix the type, Crotch's definitely cites "Type H. *psidii* Linn.," and we believe that his must be regarded as a valid fixation.
- Scudder, Hist. Sk. 185, cites Antiochus as type, but credits the genus to Latreille and says that Crotch was in error in referring the genus back to Linnaeus, Linnaeus' *Heliconii*, however, form as valid a genus as any other of his subdivisions of *Papilio*, and he does use the singular, 1875. Heliconius, in the page headings. Hence we regard this as truly a Linnean genus, and Scudder's action as ultra vires. 1913. Seitz, Macrolep. (2), V, 377, uses Heliconius Latr.

As a result of this history of Heliconius, we have concluded that it must be dropped from our lists, for *psidii* is a Danaid and no con-generic species is found in our fauna. The subfamily *Heliconiinæ* must be renamed and since Hampson has already applied the name Euclidinæ (which he spells, incorrectly, Euidinæ), we adopt that term. Since Heliconius does not take the place of Danaus we see no reason to change the family name Danaidæ.

MIGONITIS Hbn. Logotype Papilio erato Linn.

1816. Huebner, Verz. bek. Schmett, 12; erato and others. 1875. Scudder, Hist. Sk. 218, cites erato as type.

Migonitis takes the place of Heliconius Auct.

DRYAS Hbn. Haplotype Papilio paphia Linn.

1806. Huebner; Tentamen. Paphia sole species and therefore type.

- Argynnis Fab. Logotype Papilio paphia Linn.
 - 1807. Fabricius, Ill. Mag. VI, 283, paphia, cynara, cethosia, aglaija, liriope, morpheus, hermes.
 1810. Latreille, Consid. Gen. 440, cites paphia as type.
 1816. Dalman, Vetensk. Akad. Handl. XXXVII, 57-66, cites adippe as

 - type. Curtis, Brit. Ent. Lep. I, 290, cites aglaia as type.
 - 1830.
 - Scudder, Hist. Sk. 118; cites aglaia as type and says that Latreille cited paphia and cinxia, whereas the latter appears to be mentioned in synonymy. Other writers have followed Latreille and Curtis. 1875.

We regard paphia as the type of Argynnis, though there may be some slight doubt concerning Latreilles' citation of both paphia and cinxia. If it can be definitely shown that these were cited as two types, Dalman's fixation must prevail. All appear to be congeneric. The Tentamen genus, Dryas, must take the place of the more familiar name in either case, however, if we are to observe the generic limits adopted by most writers.

LEMONIAS Hbn. Haplotype Papilio maturna Linn.

1806. Huebner, Tentamen, maturna sole species and therefore type.

Melitaea Fab. Logotype Papilio cinxia Linn.

- 1807. Fabricius, Ill. Mag. VI, 284; *lucina, cinxia, cynthia, maturna.*1816. Dalman, Vetensk. Akad. Handl. XXXVII, 57, cites athalia as type, but incorrectly, for it was not included by Fabricius.
 1840. Westwood, Gen. Syn. 88, cites cinxia as type. This appears to be
- the first valid type fixation.

We have felt some doubt whether Lemonias of the Tentamen or Lemonias of the Sammiung was first published, but Huebner's statement in the preface to the Verzeichniss to the effect that the Tentamen was drawn up as a basis for the other work, leads us to the conclusion that the Tentamen has priority, hence Lemonias becomes a nymphalid genus and takes the place of Melitaa. This usage is not uncommon in the literature.

HAMADRYAS Hbn. Haplotype Papilio io Linn.

1806. Huebner, Tentamen. Io sole species and therefore type.

Io, urticæ and antiopa are generally regarded as congeneric, hence Hamadryas must be used for the group, supplanting both Aglais Dal. and Euvanessa Scud.

CYNTHIA Fab. Logotype Papilio cardui Linn.

- 1807. Fabricius, Ill. Mag. VI, 281; cardui and other species.
 1840. Westwood, Gen. Syn. 87, cites cardui as type.
 1872. Crotch, Cist. Ent. I, 66, also cites cardui, but the date of fixation which
- he gives is not in accordance with modern rules. Scudder, Hist. Sk. 152, says that *cardui* cannot be the type because "it is strictly congeneric with *atalanta*—type of *Vanessa*," a view which is obviously untenable. He cites *arsinoe* as type. 1875.

Vanessa Fab. Logotype Papilio atalanta Linn.

- 1807. Fabricius, Ill. Mag. VI, 281; io, atalanta, urticæ, levana. 1810. Latreille, Consid. Gen. 440, cites atalanta as type.
- 1840. Westwood, Gen. Syn. 87, cites io as type, incorrectly.

As a result of Scudder's peculiar reasoning, or through some strange oversight, Cynthia has had no place in our nomenclature. It immediately precedes Vanessa on the same page in Fabricius work, and the types as they were originally fixed are congeneric, so that we are forced to replace the more common term with it. Pyrameis, type atalanta also falls.

CALLICORE Hbn. Logotype Papilio codomannus Fab.

- 1818. Huebner, Verz. bek. Schmett, 41; astarte, clymena.
- Billberg, Enum. Ins. 78; clymena, haplotype of Diaethria, thus fixing astarte as type of Callicore. Scudder, Hist. Sk. 130, in spite of previous use of this genus for species 1820.
- 1875. allied to clymena, cites codomannus (astarte) as type, and notes also, on P. 135, that Catagramma falls before it.

We have sought some genus of which *codomannus* might have become the valid type before 1820 but without success. Such an action would constitute a valid fixation of *clymena* as type of *Callicore* under Opinion 6 of the International Rules, and permit its retention in the customary usage. As the matter stands, however, it will replace Catagramma, which is not represented in our fauna. Diaethria Billberg, type Papilio clymena Cram. replaces Callicore.

CELTIPHAGA nom nov. Type A patura celtis Bdv. & Lec. New name for Chlorippe Auct.

92

1922] Barnes and Lindsey: Generic Names in Lepidoptera 93

Most writers agree on the generic distinctness of the North American species hitherto referred to *Chlorippe* or *A patura* from the true European Apatura. Godman and Salvin (Biol. Cent. Am. Rhop. I, 312, 318) also indicate that they regard the North American species as distinct from those properly referable to Apatura, but use Doxocopa for the single allied species of Central America. Chlorippe is properly applied to a group of species which appear to be congeneric with agathina. Whatever application is to be made of these names, Chlorippe must fall before Doxocopa, for Scudder cites agathina as the type of Chlorippe in the Historical Sketch, and polyxena as the type of Doxocopa, but he had previously (Syst. Rev. 9) cited agathina as type of this genus, and this must stand. In the Bulletin of the Buffalo Society of Natural Science, Vol. II, p. 248, 1875, the same writer cites laurentia as the type of *Chlorippe*, but this is *ultra vires* in view of his former action. We have been unable to find earlier type fixations for either of the two genera, and it has proven equally impossible to find a described genus which will apply to celtis and its allies, so that a new name seems necessary,

CALEPHELIS G. & R. Orthotype Papilio caeneus Linn.

1869. Grote and Robinson, Trans. Am. Ent. Soc. II, 310; caeneus (as caeneus) designated type.

According to Opinion 14 of the International Rules, the type of this genus must be *caneus* Linn. as specified by Grote and Robinson, and not virginiensis, which they erroneously placed as a synonym of *caneus*, and which has been cited as the type by later writers. We are unable to find any other described genus which is applicable, and would suggest the anagram LEPHELISCA, type Erycina virginiensis Guer, to take the place of *Calephelis* Auct.

LYCAENA Fab. Logotype Papilio phlaeas Linn.

- 1807. Fabricius, Ill. Mag. VI, 285. Includes Lycaenids of all three subfamilies.
- Oken, Lehrb. I, 717, uses for blues and a few other species. 1815.
- Curtis, Brit. Ent. Lep. I, 12, cites *phlaeas* as type. Swainson, Zool. Ill. (2), III, 132, follows Curtis. Westwood, Gen. Syn. 88, also follows Curtis. 1824.
- 1832-3.
- 1840.
- Scudder, 4th Rept. Peab. Acad. 57, also cites phlaeas. 1872.
- 1875. Id., claims that the citation of phlaeas was ultra vires because of Oken's restriction, and cites endymion as type. Later writers have used it for the blues also.

It is unfortunate that the accustomed use of this genus must be so radically changed, but this is inevitable if we follow the International Rules, for Oken's action is not recognized as a valid restriction, and Curtis' specification of phlæas as type was legitimate. It is the earliest citation of a type which we have been able to find, and is abundantly substantiated by later writers.

The effect of this change on the names of the subfamilies must also be taken up. Since Chrysophanus is a synonym, the subfamily Chrysophaninæ of the "Check List" must fall, and logically becomes the LYCÆNINÆ. The blues, formerly the Lycaeninae, must have a new

name. In the absence of any rules on this point we prefer to take Plebejus Linn. as the stem for this name, forming the subfamily PLEBE-JINE, rather than follow Van Duzee's rules and base the name upon the genus which replaces Lycana. The family name remains, of course, LYCÆNIDÆ.

URBANUS Hbn. Haplotype Papilio malvæ Linn.

1806. Huebner, Teutamen, malvæ sole species and therefore type.

In view of the change in the application of *Hesperia* set forth under that genus, Urbanus takes the place of Hesperia Auct.

ERYNNIS Schrank. Logotype Papilio tages Linn.

- 1801.
- 1872.
- Schrank, Fauna Boica II, I, 157. Comma, tages, malvæ and others. Scudder, 4th Rept. Peab. Acad. 71, cites tages as type. Id., Hist. Sk. 167, claims that this was ultra vires, and that comma 1875. became type in 1832.

Unless a type was cited previous to 1872 this genus must replace Thanaos, and we have been unable to find such a citation.

The removal of *Hesperia* from this subfamily makes it necessary to establish a new name, which must be formed from one of the genera just discussed. According to Van Duzee's suggestions, it should become the subfamily URBANINÆ. Erynnis, the oldest included genus, would form the name Erynnina. It seems to us that there is little choice in the matter, so we are adopting the former.

Thymele, hitherto applied by modern writers to a neotropical genus allied to Telegonus, will fall before Erynnis, as also will Thanaos. Tages was designated as the type of Thymele by Westwood (1840, Gen. Syn. 88) and Scudder's later actions (Hist. Sk. 282) were ultra vires.

HESPERIA Fab. Logotype Papilio comma Linn.

- 1793. Fabricius, Ent. Syst. III, (1), 258, corresponds to Linnaeus' Papiliones plebeji.
- 1798. Cuvier, Tabl. Elem. 592, cites only malvæ in this genus.
- Latreille, Consid. Gen. 440, cites proteus, malvæ and steropes as 1810. "types.

1816. Dalman, Vetensk. Akad. Handl. XXXVII, 200, cites comma as type.

- 1820-21. Swainson, Zool. Ill., (1), I. 28, cites comma as type.
 1833. Curtis, Brit. Ent. Lep. II, 442, also cites comma.
 1870. Butler, Ent. Mo. Mag. VII, 58, cites exclamationis, erroneously.
 1872. Crotch, Cist. Ent. 1, 62, cites malva as type, giving Cuvier, 1798, as his authority
- Scudder, 4th Rept. Peab. Acad. 73, cites malvæ as type. 1872.
- 1875. Id., Hist. Sk. 187. does same.

We have not been able to examine Cuvier's Tableau Elementaire, but in 1832 (An. Kingdom XV, 594, footnote) he refers to Fabricius' Ent. Syst. for "the other species," after citing malvæ as sole example of Hesperia. This is rather conclusive evidence that there was no intention to restrict in the mind of Cuvier, even though his action in 1798 were admissible as a restriction. Aside from this we find nothing on which to base the prevalent use of malva as type, and it seems that the genus properly applies to the species now placed in Pamphila. Westwood, in 1840, (Gen. Syn. 88) cited comma as the type of Pamphila so

94

that it is synonymous with *Hesperia*. This necessitates changing the name of the subfamily Pamphilinæ to HESPERILÆ. As in the case of the Lycanida, we feel that it is both unnecessary and inadvisable to change the name of the family, as has been done by Hampson (Nov. Zool. XXV, 386).

SPHINGIDÆ.

PHLEGETHONTIUS Hbn. Logotype Sphinx sexta Joh.

- 1820. Huebner, Verz. bek. Schmett, 140, cluentius, carolina and others.
 1892. Kirby, Cat. Lep. Het. I, 688, cites sexta (carolina) as type.
 1903. Rothschild and Jordan, Rev. Sphing. I, 52, cite cluentius as type and place the name under Cocytius.

Kirby's appears to be the first type fixation, and will re-establish the use of this genus for the species now listed under Protoparce.

- ATREIDES Holland, new name for Atreus Grt., type Sphinx plebeja Fab., preoccupied in Arachnida.
 - 1903. Holland Moth Book 49, calls attention to the incorrect use of Atreus by Rothschild and Jordan and proposes the new name, which has since been overlooked.

Hyloicus Hbn. Logotype Sphinx pinastri, Linn.

1820. Huebner, Verz. bek. Schmett. 138, *pinastri* and others.1873. Grote, Bull. Buff. Soc. Nat. Sci. I. 27, cites *pinastri* as type.

Takes the place of Sphinx, which has been incorrectly used as explained under that genus.

PHRYXUS Hbn. Logotype Sphinx caicus Cram.

- Huebner, Verz. bek. Schmett, 137; livornica (lineata) and caicus.
 Kirby, Cat. Lep. Het. I, 697, cites caicus as type.
 Rothschild and Jordan, Rev. Sphing. II, 713, cite lineata, following the first species principle.

Grammodia R. & J. Orthotype Sphinx caicus Cram.

1903. Rothschild and Jordan, Rev. Sphing. I. 371; caicus designated type.

This matter needs no further explanation.

CALLIOMMA Wlk. Logotype Sphinx parce Fab.

- 1856. Walker, List. Lep. Ins. B. M. VIII, 108, nomius, licastus and others.
 1892. Kirby, Cat. Lep. Het. 646, cites licastus as type. This species, according to R. & J., is synonymous with *parce* Fab. 1903. Rothschild and Jordan, Rev. Sphing. I, 387, cite *nomius* as type.

Rothschild and Jordan use Hemeroplanes Hbn. for parce, citing pan as type. Kirby in 1892, however, designated *triptolemus* as type of this genus, so that it replaces *Leucorhampha* R. & I., dropping out of our fauna, and is itself replaced by *Calliomma*.

HEMARIS Dalman. Orthotype Sphinx fuciformis Linn.

1816. Dalman Vet. Akad. Handl. XXXVII, 207, fuciformis designated type.

Haemorrhagia G. & R. Logotype Sesia thysbe Fab.

1865. Grote and Robinson, Proc. Ent. Soc. Phil. V, 149; gracilis, ruficaudis, thysbe, fuscicaudis.

1873. Grote, Bull. Buff. Soc. Nat. Sci. I, 18, cites thysbe as type.

We find it utterly impossible to agree with the reasoning of Rothschild and Jordan (Rev. Sphing, I, 438) regarding Hemaris. Opinion 10 of the International Rules deals with just such cases, and permits the use of Hemaris in place of Hæmorrhagia.

SPHINX Linn. Logotype Sphinx euphorbiæ Linn.

- 1758. Linnaeus. Syst. Nat. Ed. X, 489, includes all hawk-moths.
 1758. Linnaeus. Syst. Nat. Ed. X, 489, includes all hawk-moths.
 1810. Latreille, Consid. Gen. 440, cites *euphorbiæ* as type.
 1820-21. Swainson, Zool. Ill. (1), II, 81, cites *convolvuli* as type.
 1828. Curtis, Brit. Ent. Lep. I, 195, cites *ligustri* as type.
 1873. Grote, Bull. Buff. Soc. Nat. Sci. I, 25, follows Curtis.
 1892. Kirby, Cat. Lep. Het. I, 692, also designates *ligustri*.
 1903. Rothschild and Jordan, Rev. Sphing. I, 313, cite *ocellata*.
 1917. Barnes and McDunnough, Check List 24, apply to species now placed in *Hydricus* without any explanation. in Hyloicus, without any explanation.

Latreille's fixation, in spite of the fact that it does not agree with subsequent usage, must be regarded as the first valid type fixation. With *euphorbia* as type the genus takes the place of *Celerio*, type Sphinx gallii Roth.

SATURNIIDÆ.

SAMIA Hbn. Logotype Phalaena cynthia Dru.

- 1820.
- Huebner, Verz. bek. Schmett. 156, cynthia, cecropia, promethea. Walker, List. Lep. Ins. B. M. V, 1222, uses for cecropia, promethea, 1855. and others.
- 1865.
- Grote, Proc. Soc. Phil. V, 228, cites *cynthia* as type. Id; Proc. Am. Phil. Soc. XIV, 258, under *Philosamia*, mentions Walker's 1874. use of the genus and cites *cecropia* as type. 1886. Smith, Proc. U. S. N. M. IX, 416, uses for *cynthia* alone. 1892. Kirby, Cat. Lep. Het. I, 750, cites *cecropia* as type.

Philosamia Grt. Logotype Phalaena cynthia Dru.

- 1874. Grote, Proc. Am. Phil. Soc. XIV, 258, cynthia designated type.
 1892. Kirby, Cat. Lep. Het. I, 748, cites walkeri as type.
 1912. Packard, Mon. Bomb. Moths. N. A. III, 239.

Walker's action in 1855 was in no sense a restriction so far as the selection of a type is concerned, and Grote's first designation of cynthia is therefore valid and his later action in specifying cecropia as type ultra vires. In Packard's Monograph Philosamia is used for cynthia and allied species, with Samia quoted in synonymy. Under Samia, used for *cecropia* and allies, the references are by the editors, so it would seem that Packard recognized the use we make of the genus as correct.

PLATYSAMIA Grt. Logotype Bombyx cecropia Linn.

- 1865. Grote, Proc. Ent. Soc. Phil. V, 228; cecropia, columbia, californica.
 1874. Id., Proc. Am. Ent. Phil. Soc. XIV, 258, under Philosamia, says that this genus should fall before Samia.
 1912. Cockerell, in Packard's Mon. Bomb. Moths N. A. III, 211, follows
- Grote's action of 1874.

It seems that no type has ever been specified for *Platysamia*, so we select *cecropia*. The three species originally included are congeneric, so there can be no mistaken application of the genus, which takes the place of Samia as commonly used.

ACTIAS Leach. Logotype Phalaena luna Linn.

- 1815. Leach, Zool. Misc., 11, 25; luna and selene.
 1874. Grote, Proc. Am. Phil. Soc. XIV, 257, cites luna as type.
 1892. Kirby, Cat. Lep. Het. I, 766, cites selene as type.
 1912. Packard, Mon. Bomb. Moths N. A. 111, 181, uses for selene.

Tropaea Hbn. Logotype Echidna caudata selene Hbn.

- 1820.
- Huebner, Verz. bek. Schmett. 152; luna, selene. Packard, Proc. Ent. Soc. Phil. III, 379, uses for luna, but cites no 1864. type. Kirby, Cat. Lep. Het. I. 765, separates from Actias, but cites no type.
- 1892.
- Plectropteron Hutt. Haplotype Echidna caudata selene Hbn.
 - 1864. Hutton, Ann. & Mag. Nat. Hist. XVII, 60; dianæ (syn. of selene) sole species and therefore type.

These three genera offer a nice problem in type fixation. When selene became type of Plectropteron in 1846, the types of one or both of the other two genera were automatically fixed as luna. A possible solution is that luna became the type of Actias, since that genus takes priority over Tropaa, and that either species could then be selected as type of Tropæa. Since Grote later cited luna as the type of Actias, everything favors this fixation. If it be thought desirable to separate selene and luna generically, the selection of a type for Tropad becomes of some importance. We have been unable to find any type specified, so we designate selene in order that the earlier names may stand. Hampson, Rothschild and other writers regard selenc and lung as congeneric, in which we follow them.

CERATOCAMPIDÆ.

EACLES Hbn. Logotype Attacus imperialis Dru.

- 1820. Huebner, Verz. bek. Schmett. 153; imperatoria and others.
- Grote, Proc. Am. Phil. Soc. XIV, 260, cites imperialis (imperatoria) as 1874. type.

We are unable to find any previous type fixation, and the name is not preoccupied, hence there appears to be no reason why it should not apply to the species now listed in *Basilona*. We are unable to find any designation of a type for the latter genus, and take this opportunity to suggest *cacicus*, which is congeneric with *imperialis*, as also is the remaining species, ducalis, according to Packard.

SYNTOMIDÆ.

PSEUDOMYA Hbn. Logotype Glaucopis tipulina Hbn.

- Huebner, Verz. bek. Schmett. 124; melanthus, tipulina, temenus, eacus.
 Kirby, Cat. Lep. Het. I. 138, cites tipulina as type.
 Hampson, Cat. Lep. Phal. B. M. I, 262, cites melanthus as type.

Owing to Kirby's designation of *tipulina*, this genus will replace Saurita in Hampson's Catalogue, and is not represented in our fauna. Its place is taken by

PSEUDOCHARIS Druce. Orthotype P. naenia Druce.

1884. Druce, Biol. Cent. Am., Lep. Het. I, 56, P. naenia designated type.

[Vol. XV,

ARCTIIDÆ.

Nolinæ.

ROESELIA Hbn. Logotype Tinea cucullatella Linn.

1826. Huebner, Verz. bek. Schmett. 397; togatulana, cucullatella and others.

1874. Grote, Bull. Buff. Soc. Nat. Sci. II, 152, cites cucullatella as type. 1900. Hampson, Cat. Lep. Phal. B. M. II, 51, cites togatulalis as type.

We find no objection to Grote's fixation of cucullatella as type, and therefore sink this genus to Nola. The next available name for the species allied to togatulalis is Sarbena Wlk., Jn. Linn. Soc., Zool. VI, 137, 1862. We have not been able to consult the original description, but have found no type fixations to conflict with that of Hampson, who designates S. lignifera Wlk. and makes the name a synonym of Ræselia.

LITHOSIINÆ.

EUDESMIA Hbn. Haplotype E. ruficollis Hbn.

1824? Huebner. Samml. exot. Schmett. II, pl. 400; ruficollis sole species and therefore type.

This genus should be used for the North American species now listed under Cisthene.

CISTHENE Wlk. Logotype C. subjecta Wlk.

1854. Walker, List. Lep. Ins. B. M. II, 533; trisigna, subjecta.
1874. Grote, Bull. Buff. Soc. Nat. Sci. II, 151, cites subjecta as type.
1892. Kirby, Cat. Lep. Het. I, 288, follows Grote.
1900. Hampson, Cat. Lep. Phal. B. M. II, 243, cites trisigna as type.

There is nothing contrary to the International Rules in Grote's action in 1874, so we restore Cisthene to its former place, with Illice in synonymy.

HAEMATOMIS Hamps., 1900, Cat. Lep. Phal. B. M. II, 514.

This name was spelled *Haematomonis* in the Check List (p. 31), but neither in Hampson's text nor index does it appear in that form.

ARCTIINÆ

PHAEGOPTERA, H. S. Logotype P. histrionica H. S.

1853. Herrich-Schaeffer, Ausser. Schmett. 78, ff. 58-68; histrionica and other species.

1892. Kirby, Cat. Lep. Het. I, 212, cites histrionica as type.

Phegoptera H. S.

1853. Herrich-Schaeffer, op. cit. 16; no species mentioned.

Hampson (Cat. Lep. Phal. B. M. III, 117) discards Phegoptera H. S. as an undescribed genus and does not mention Phagoptera. The two names were doubtless intended to be the same, but the latter alone is valid. It takes the place of Opharus Wlk., type procroides (sole sp.).

PARASEMIA Hbn. Logotype Bombyx festiva Bock.

- 1822. Huebner, Verz. Bek. Schmett. 181, plantaginis and lapponica (festiva).
 1828. Stephens, Ill. Brit. Ent., Haust. II, 72, used plantaginis as the sole species for his new genus Nemeophila, thus fixing the type of Parasemia as festiva.
- 1892.
- Kirby, Cat. Lep. Het. I, 250, cites *plantaginis* as type. Hampson, Cat. Lep. Phal. B. M. III, 458, cite *plantaginis* also. 1901.

This case is covered by Opinion 6 of the International Rules. With festiva as type Parasemia supersedes Hyphoraia Huebner, type testudinaria Four.

NEMEOPHILA Stephens. Haplotype Bombyx plantaginis Linn.

1828. Stephens, Ill. Brit. Ent. Haust. II, 72; plantaginis sole species. Nemeophila replaces Parasemia for reasons stated under that genus.

AGARISTIDÆ VS. PHALÆNOIDIDÆ.

Hampson's contention that *Phalænoides* should be the type genus of this family finds no support in the International Rules, which are disagreeably lacking on the point, and it conflicts directly with Van Duzee's recommendations. Since Agarista does not fall before Phalanoides we prefer to retain the older name, Agaristida.